

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Agricultural Systems Technology

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																																		
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<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, the growing interest in worldwide standardization of agricultural equipment should result in increased employment of agricultural engineers. Job opportunities should also result from the increasing demand for agricultural products, the continued efforts for more efficient agricultural production, and the increasing emphasis on the conservation of resources.</p> <p>Get the Facts</p> <p>Students enrolled in high school agricultural courses are looking to join a \$3.5-4.0 billion Utah industry.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		<p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>				3.00 credits for completion																																																			

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Horticulture Science & Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers	
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School	
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training</p> <p>Sample Occupations</p> <p>> Agricultural Education Teacher > Arborist > Botanist > Forest Geneticist > Golf Course Superintendent > Greenhouse Operator > Landscape Architect > Plant Breeder > Soil & Water Specialist > Tree Surgeon</p> <p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>	
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)			
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science or Biological Science 1.00	Plant and Soil Science 1.00			
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50		
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life. 50 / Health Education .50 Lifetime Activities or Sport .50				
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50					
			Financial Literacy	.50			Financial Literacy .50			
Keyboarding .50			Computer Tech.	.50	Computer Technology .50					
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses					
<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, positions in landscape and horticultural services are expected to increase at a fast pace.</p> <p>Get the Facts</p> <p>24 million, or 17% of the American workforce, is employed in the agricultural industry.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)						2.00 credits
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL						
				Course #	Foundation Courses: (required)			Credit		
				01.0631	Floriculture & Greenhouse Management			1.00		
				01.0641	Nursery Operation & Landscape Management			1.00		
					Elective Courses:					
				01.0111	Agricultural Business Management			1.00	1.00 credits	
				01.0311	Agricultural Science I			1.00		
				01.0651	Ornamental Horticulture, Applied			1.00		
				01.0631	Floriculture & Greenhouse Management A			.50		
				01.0631	Floriculture & Greenhouse Management B			.50		
				01.0802	Ag. Communications & Leadership (capstone)			1.00		
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High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Natural Resources Science & Management

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Workforce Trends Utah has a wealth of natural resources, which includes five national parks, seven national monuments, seven national forests, two national recreation areas, 45 state parks, and millions of acres of Bureau of Land Management (BLM)-administered deserts and range land. With the multitude of natural resources in Utah there are a vast amount of career opportunities within eight federal and state divisions.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.			Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				<p>> Agricultural Education Teacher</p> <p>> Fish & Game Officer</p> <p>> Fish Hatchery Manger</p> <p>> Forest Worker</p> <p>> Mining Engineer</p> <p>> Outfitter/Guide</p> <p>> Park Manager</p> <p>> Water Technician</p> <p>> Wild Firefighter</p> <p>> Wildlife Officer</p>																																						
Get the Facts There are 600 bison that roam on Antelope Island State Park, the largest island in the Great Salt Lake; the island herd is the second oldest privately held herd in the United States. Today, the bison on the island are among the most sought-after bison in the country.					<table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>03.0111</td><td>Natural Resource Science I</td><td>1.00</td></tr><tr><td>03.0121</td><td>Natural Resource Science II</td><td>1.00</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>01.0111</td><td>Agricultural Business Management</td><td>1.00</td></tr><tr><td>01.0311</td><td>Agricultural Science I</td><td>1.00</td></tr><tr><td>01.0351</td><td>Aquaculture, Introductory</td><td>1.00</td></tr><tr><td>01.0361</td><td>Aquaculture, Advanced</td><td>1.00</td></tr><tr><td>01.0802</td><td>Ag. Communications & Leadership (capstone)</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr><tr><td>01.0100</td><td>Summer Agriculture Program</td><td>.25</td></tr><tr><td></td><td>Supervised Agriculture Experience Program (capstone experience)</td><td></td></tr></tbody></table>					Course #	Foundation Courses: (required)	Credit	03.0111	Natural Resource Science I	1.00	03.0121	Natural Resource Science II	1.00	Elective Courses:			01.0111	Agricultural Business Management	1.00	01.0311	Agricultural Science I	1.00	01.0351	Aquaculture, Introductory	1.00	01.0361	Aquaculture, Advanced	1.00	01.0802	Ag. Communications & Leadership (capstone)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	01.0100	Summer Agriculture Program	.25		Supervised Agriculture Experience Program (capstone experience)		2.00 credits	
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High School to College and Career Pathway: Secondary

Area of Study: Agricultural Education

Pathway: Production/Processing Animal Science

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																																		
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<p>Workforce Trends</p> <p>Agriculture is the nation's largest employer, with more than 21 million people working in some phase of the industry, from growing food and fiber to selling it in the supermarkets.</p> <p>Get the Facts</p> <p>Agriculture is a vital industry to Utah's economy. There are 15,000 farms in the state, totaling approximately 11.6 million acres, where Utah agriculturists produce crops and livestock worth nearly \$1 billion annually.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																																									
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Area of Study: Agricultural Education

Pathway: Production/Processing Plant & Soil Science

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<p>Workforce Trends</p> <p>Agronomy is a specialized field where many agronomists are independent consultants.</p> <p>Get the Facts</p> <p>About 17% of all U.S. agricultural products are exported yearly, including 99 million tons of grains and feed and 2 million tons of fresh vegetables.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			Career and Technical Education Recommended Pathway Courses				<p>2.00 credits</p> <p>1.00 credits</p> <p>3.00 credits for completion</p>
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Pathway: Production/Processing Science & Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology–Agricultural Science or Biological Science 1.00	Animal Science or Plant and Soil Science 1.00		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>According to the Utah Farm Bureau Federation, more than 100,000 people are employed by agriculture and agribusiness in the state of Utah.</p> <p>Get the Facts</p> <p>Farmers and ranchers provide food and habitat for 75% of the nation's wildlife. One-fourth of the world's grain, milk, and eggs are produced in the United States.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>		Career and Technical Education Recommended Pathway Courses				2.00 credits	
				(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Courses: (required)		Credit		2.00 credits
				01.0311	Agricultural Science I		1.00		
				01.0321	Agricultural Science II		1.00		
				Elective Courses:					
				01.0111	Agricultural Business Management		1.00		
				01.0331	Agricultural Science III		1.00		
				02.0211	Animal Science I		1.00		
				02.0241	Animal Science II		1.00		
				01.0351	Aquaculture, Introductory		1.00		
				01.0361	Aquaculture, Advanced		1.00		
				02.0251	Dairy Herd Management		1.00		
				02.0221	Equine Science		1.00		
				02.0411	Plant and Soil Science I		1.00		
				02.0421	Plant and Soil Science II		1.00		
				02.0261	Swine Herd Management		1.00		
				02.0231	Veterinary Assistant		1.00		
				02.0235	Veterinary Technician		1.00		
01.0802	Ag. Communications & Leadership (capstone)		1.00						
32.0199	Student Internship (Critical Workplace Skills)		.50						
01.0100	Summer Agriculture Program		.25						
	Supervised Agriculture Experience Program (capstone experience)								
				3.00 credits for completion					

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov</p>
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Note: For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Business Education

Pathway: Accounting & Finance

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																																																							
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																																																							
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Business Communication 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																																																							
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00																																																																									
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)																																																																									
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																																																								
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50																																																																										
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Lifetime Activities or Sport .50																																																																											
					Fine Arts Courses 1.50																																																																											
			Financial Literacy	.50	Financial Literacy .50																																																																											
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																																																											
CTE Intro 1.00		1.00	Career and Technical Education	1.00																																																																												
Workforce Trends <p>Accountants, those with a CPA, continue to be in demand in both public and private industry audit and tax specialties. Demand is especially high in the tax and health care areas.</p> <p>Accountants who have a lot of special skills, such as certified public accountants (CPAs) and certified management accountants, should have the easiest time finding a job.</p> Get the Facts <p>In Utah, a Certified Public Accountant (CPA) must have a master's degree in accounting and be licensed. The license must be renewed every two years.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>			<table><tr><th colspan="3">Career and Technical Education Recommended Pathway Courses</th></tr><tr><td colspan="3">(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</td></tr><tr><th colspan="3">CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</th></tr><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr><tr><td></td><td>Choose two of the following courses:</td><td></td></tr><tr><td>52.0312</td><td>Accounting I</td><td>.50</td></tr><tr><td>52.0322</td><td>Accounting II</td><td>.50</td></tr><tr><td>52.0813</td><td>Banking & Finance</td><td>.50</td></tr><tr><td></td><td>Elective Courses:</td><td></td></tr><tr><td>52.0332</td><td>Accounting III</td><td>.50</td></tr><tr><td>52.0342</td><td>Accounting IV</td><td>.50</td></tr><tr><td>52.0511</td><td>Business Communication I</td><td>.50</td></tr><tr><td>52.0521</td><td>Business Communication II</td><td>.50</td></tr><tr><td>52.0441</td><td>Business Law</td><td>.50</td></tr><tr><td>52.0211</td><td>Business Management</td><td>.50</td></tr><tr><td>52.0311</td><td>Business Math</td><td>.50</td></tr><tr><td>52.0611</td><td>Economics</td><td>.50</td></tr><tr><td>52.0419</td><td>Computer Technology II</td><td>.50</td></tr><tr><td>52.0621</td><td>Entrepreneurship</td><td>.50</td></tr><tr><td>08.0211</td><td>Leadership Principles</td><td>.50</td></tr><tr><td>08.0708</td><td>Marketing</td><td>.50</td></tr><tr><td>52.0471</td><td>Word Processing</td><td>.50</td></tr><tr><td>52.0461</td><td>Word Processing Basics</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table>				Career and Technical Education Recommended Pathway Courses			(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)			CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			Course #	Foundation Courses: (required)	Credit		Choose two of the following courses:		52.0312	Accounting I	.50	52.0322	Accounting II	.50	52.0813	Banking & Finance	.50		Elective Courses:		52.0332	Accounting III	.50	52.0342	Accounting IV	.50	52.0511	Business Communication I	.50	52.0521	Business Communication II	.50	52.0441	Business Law	.50	52.0211	Business Management	.50	52.0311	Business Math	.50	52.0611	Economics	.50	52.0419	Computer Technology II	.50	52.0621	Entrepreneurship	.50	08.0211	Leadership Principles	.50	08.0708	Marketing	.50	52.0471	Word Processing	.50	52.0461	Word Processing Basics	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
Career and Technical Education Recommended Pathway Courses																																																																																
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52.0441	Business Law	.50																																																																														
52.0211	Business Management	.50																																																																														
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52.0611	Economics	.50																																																																														
52.0419	Computer Technology II	.50																																																																														
52.0621	Entrepreneurship	.50																																																																														
08.0211	Leadership Principles	.50																																																																														
08.0708	Marketing	.50																																																																														
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32.0199	Student Internship (Critical Workplace Skills)	.50																																																																														
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					3.00 credits for completion																																																																											

<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>	<p>Sample Occupations</p> <p>> Accountant</p> <p>> Accounting Clerk</p> <p>> Auditor</p> <p>> Bookkeeper</p> <p>> Business Education Teacher</p> <p>> Tax Examiner</p> <p>> Tax Preparer</p>	<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>
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Note: For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Business Education

Pathway: Business Administrative Support

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Business Communication 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, secretaries and administrative assistants held more than 4.1 million jobs in 2004. This is one of the largest job categories in the U. S. About 9 out of 10 secretaries work in firms providing services. These services range from education and health care to legal and business services.</p> <p>Get the Facts</p> <p>In the early days of mechanical typewriters, proficient typists could type so fast that the keys frequently jammed against each other. The familiar but illogical QWERTY keyboard was then developed in an effort to space often-used keys apart to prevent jamming.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>		Career and Technical Education Recommended Pathway Courses				<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>	
				(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Courses: (required)		Credit		
					Choose two of the following courses:				
				52.0511	Business Communication I		.50		
				52.0521	Business Communication II		.50		
				52.0419	Computer Technology II		.50		
				52.0471	Word Processing		.50		
					Elective Courses:				
52.0312	Accounting I		.50						
52.0322	Accounting II		.50						
52.0451	Administrative Procedures		.50						
52.0441	Business Law		.50						
52.0211	Business Management		.50						
52.0311	Business Math		.50						
52.0254	Business Web Page Design		.50						
52.0447	Desktop Publishing I		.50						
52.0457	Desktop Publishing II		.50						
08.0211	Leadership Principles		.50						
08.0708	Marketing		.50						
52.0461	Word Processing Basics		.50						
32.0199	Student Internship (Critical Workplace Skills)		.50						

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Note: For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Business Education



Pathway: Business Entrepreneurship

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Business Communication 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends To be an entrepreneur you don't need to be a certain age. A lot of teens are successful entrepreneurs. The U.S. Small Business Administration has a Teen Business Link to help teens start, grow, and own a business: http://www.sba.gov/teens/</p> <p>Get the Facts 70% of the new jobs in America are created by small businesses, and 90% of these businesses are sole proprietorships.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>			Career and Technical Education Recommended Pathway Courses				<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>
					(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)				
					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Course: (required)	Credit		
					52.0621	Entrepreneurship (required)	.50	}	
					Choose one of the following courses:				
					52.0441	Business Law	.50		
					08.0708	Marketing	.50		
					Elective Courses:			}	
					52.0312	Accounting I	.50		
					52.0322	Accounting II	.50		
					08.9904	Advertising/Promotion	.50		
					52.0813	Banking & Finance	.50		
					52.0511	Business Communication I	.50		
					52.0521	Business Communication II	.50		
					52.0211	Business Management	.50		
					52.0311	Business Math	.50		
					52.0254	Business Web Page Design	.50		
					08.0710	Customer Service	.50		
					52.0611	Economics	.50		
08.0211	Leadership Principles	.50							
08.1701	Real Estate	.50							
08.0903	Sports & Entertainment Marketing	.50							
52.0461	Word Processing Basics	.50							
52.0471	Word Processing	.50							
32.0199	Student Internship (Critical Workplace Skills)	.50							
<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>									

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Business Education

Pathway: Business Management

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Business Communication 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit — class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends In the past, MBAs generally covered all aspects of business. But these days, programs are expanding to include specializations ranging from nonprofit management to international business and electronic commerce.</p> <p>Get the Facts If you aspire to earn an MBA, consider a path that includes some humanities, a bit of economics, and some patience.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>		Career and Technical Education Recommended Pathway Courses					<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>
				(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Courses: (required)			Credit	
				52.0211	Business Management (required)			.50	
				Choose one of the following courses:					
				52.0441	Business Law			.50	
				08.0708	Marketing			.50	
				Elective Courses:					
				52.0312	Accounting I			.50	
				52.0322	Accounting II			.50	
				52.0813	Banking & Finance			.50	
				52.0511	Business Communication I			.50	
				52.0521	Business Communication II			.50	
				52.0311	Business Math			.50	
				52.0254	Business Web Page Design			.50	
				08.0802	e-Commerce			.50	
				52.0611	Economics			.50	
				52.0419	Computer Technology II			.50	
				52.0621	Entrepreneurship			.50	
				08.0211	Leadership Principles			.50	
				08.0903	Sports & Entertainment Marketing			.50	
				52.0461	Word Processing Basics			.50	
				52.0471	Word Processing			.50	
				32.0199	Student Internship (Critical Workplace Skills)			.50	

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Child Development

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																							
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																							
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none">> Certificate> Associate degree> Bachelor's degree> Professional degree> On-the-job training> Apprenticeship> Military training																																							
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																									
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)																																									
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																								
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																										
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50																																											
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Workforce Trends <p>Child care workers held about 1.3 million jobs in 2004. About 1 out of 3 child care workers was self-employed. 17% of all child care workers are found in child day care services, and about 21% work for private households.</p> <p>According to the U.S. Department of Labor, employment of child care workers is projected to increase 9 to 17% for all occupations through the year 2014.</p> Get the Facts <p>Nationwide, families pay approximately 60% of their total annual estimated expenditures on child care. Formal child care generates 2.8 billion jobs.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>							Sample Occupations <ul style="list-style-type: none">> Child Care Aide/Worker> Family and Consumer Sciences Education Teacher> Preschool Teacher> School Psychologist> Special Education Teacher> Social Worker> Teacher Assistant <p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>																																							

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Consumer Economics Services

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																
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<div><div><div>Workforce Trends</div><div>This is a small occupation in the United States, employing approximately 93,000 workers. In Utah, the annual growth rate for this occupation is estimated to be 29%.</div><div>Get the Facts</div><div>Financial issues are the most common source of problems within families and couple relationships.</div></div><div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div><div>Concurrent enrollment course offerings vary by school and district.</div></div>																																									

Note: For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Family & Human Services

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																								
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<p>Workforce Trends</p> <p>According to the U.S. Department of Labor, family and community service employees hold about 2.2 million jobs. Some of the fastest growing occupations in the nation are concentrated in the social services, especially those that involve working with the elderly.</p> <p>Get the Facts</p> <p>Studies have shown that a harmonious marriage relationship promotes competence and maturity in the couple's children. Other studies have demonstrated that marital conflict may result in cognitive delay, school difficulties, and antisocial or withdrawn behavior.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>			<p>Career and Technical Education Recommended Pathway Courses</p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>20.0102</td><td>Child Development *</td><td>.50</td></tr><tr><td>20.0108</td><td>Food and Nutrition I</td><td>.50</td></tr><tr><td colspan="3">Choose one of the following courses:</td></tr><tr><td>20.0117</td><td>Adult Roles & Financial Literacy **</td><td>1.00</td></tr><tr><td>20.0107</td><td>Adult Roles & Responsibilities</td><td>.50</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>20.0118</td><td>Foods & Nutrition II</td><td>.50</td></tr><tr><td>20.0138</td><td>Foundations of Nutrition *</td><td>.50</td></tr><tr><td>20.0112</td><td>Human Development</td><td>1.00</td></tr><tr><td>20.0109</td><td>Life Management *</td><td>.50</td></tr><tr><td>20.0137</td><td>Teen Living *</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table> <p>* Course can be taken up to 1.00 credit.</p> <p>** This course satisfies the .50 Financial Literacy requirement.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>				Course #	Foundation Courses: (required)	Credit	20.0102	Child Development *	.50	20.0108	Food and Nutrition I	.50	Choose one of the following courses:			20.0117	Adult Roles & Financial Literacy **	1.00	20.0107	Adult Roles & Responsibilities	.50	Elective Courses:			20.0118	Foods & Nutrition II	.50	20.0138	Foundations of Nutrition *	.50	20.0112	Human Development	1.00	20.0109	Life Management *	.50	20.0137	Teen Living *	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	<p>1.50 credits</p> <p>1.50 credits</p> <p>3.00 credits for completion</p>	
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Sample Occupations

- > Child Care Aide/Worker
- > Family and Consumer Sciences Education Teacher
- > Preschool Teacher
- > Social Worker
- > Teacher Assistant

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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Fashion Design, Manufacturing & Merchandising

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																													
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<div><div>Workforce Trends</div><div>Employers seek designers with a 2- or 4-year degree who are knowledgeable about textiles, fabrics, ornamentation, and fashion trends.</div><div>Employment growth for fashion designers will stem from a growing population demanding more clothing, footwear, and accessories. The best job opportunities will be in design firms that design mass market clothing sold in department stores and retail chain stores, such as apparel wholesale firms.</div><div>Get the Facts</div><div>In 2004, two-thirds of salaried fashion designers were employed in either New York or California.</div></div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>			<div>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</div>				<div><div>Sample Occupations</div><div>> Family and Consumer Sciences Education Teacher</div><div>> Fashion Designer</div><div>> Retail Sales Person</div><div>> Retail Buyer</div><div>> Tailor</div><div>> Wholesale Buyer</div></div> <div>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</div>																																													

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Food Science, Dietetics, & Nutrition

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																													
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<div>Workforce Trends</div> <p>Dietitians and nutritionists held about 50,000 jobs in 2004. Employment of dietitians is expected to increase 18 to 26% for all occupations through 2014 as a result of increasing emphasis on disease prevention through improved dietary habits.</p> <div>Get the Facts</div> <p>Researchers don't know why, but people living in mountain states eat 30% more cookies than other people.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																				

								<div>Sample Occupations</div> <p>> Dietetic Technician</p> <p>> Dietitian</p> <p>> Family and Consumer Sciences Education Teacher</p> <p>> Food/Drug Inspector</p> <p>> Food Scientists</p> <p>> Food Technologist</p> <p>> Medical Dietician</p> <p>> Nutritionist</p>	
								<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>	

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Food Service & Culinary Arts

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																														
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																														
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none">> Certificate> Associate degree> Bachelor's degree> Professional degree> On-the-job training> Apprenticeship> Military training																																														
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																																
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P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																																	
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Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																																		
CTE Intro 1.00		1.00	Career and Technical Education	1.00																																																			
Workforce Trends Chefs, cooks, and food preparation workers held nearly 3.1 million jobs in 2004. Job openings for chefs, cooks, and food preparation workers are expected to be plentiful through the year 2014; however, competition should be fierce for jobs in the top kitchens of higher-end restaurants. Get the Facts Only 19.9% of people employed in the field of Culinary Arts are women.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district. Foundation courses taken beyond the required credits can be used as elective credit.			Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL <table><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr><tr><td>20.0108</td><td>Food & Nutrition I</td><td>.50</td></tr><tr><td>20.0118</td><td>Food & Nutrition II</td><td>.50</td></tr><tr><td></td><td>Choose one of the following:</td><td></td></tr><tr><td>20.0401</td><td>Food Service/Culinary Arts</td><td>1.00</td></tr><tr><td>20.0411</td><td>Pro Start I</td><td>1.00</td></tr><tr><td></td><td>Elective Courses:</td><td></td></tr><tr><td>20.0601</td><td>Hospitality Services</td><td>.50</td></tr><tr><td>20.0511</td><td>Pro Start II</td><td>1.00</td></tr><tr><td>08.0901</td><td>Travel & Tourism</td><td>.50</td></tr><tr><td></td><td>One Ent. course may count as elective credit.</td><td></td></tr><tr><td>52.0621</td><td>Entrepreneurship for business</td><td>.50</td></tr><tr><td>20.0701</td><td>Entrepreneurship in FACS</td><td>.50</td></tr><tr><td>08.0301</td><td>Entrepreneurship for marketing</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table> Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.				Course #	Foundation Courses: (required)	Credit	20.0108	Food & Nutrition I	.50	20.0118	Food & Nutrition II	.50		Choose one of the following:		20.0401	Food Service/Culinary Arts	1.00	20.0411	Pro Start I	1.00		Elective Courses:		20.0601	Hospitality Services	.50	20.0511	Pro Start II	1.00	08.0901	Travel & Tourism	.50		One Ent. course may count as elective credit.		52.0621	Entrepreneurship for business	.50	20.0701	Entrepreneurship in FACS	.50	08.0301	Entrepreneurship for marketing	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	2.00 credits 	
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Sample Occupations

- > Baker
- > Butcher/Meat Cutter
- > Caterer
- > Chef/Head Cook
- > Chocolatier
- > Family and Consumer Sciences Education Teacher
- > Food Service Director
- > Food Service Manager
- > Food Stylist
- > Pastry Chef

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Family & Consumer Sciences Education

Pathway: Hospitality Services

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																												
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Workforce Trends According to the U.S. Department of Labor, travel and tourism is one of the largest and fastest growing industries in the world. Each year, travel and tourism employers around the world pay more than \$1.6 trillion in wages and salaries and create 12.5 million new jobs.		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																																			
Get the Facts Spending by travelers and visitors accounts for roughly 15 to 30% of revenues at table service restaurants with average check sizes of less than \$25.																																																					
In some states a travel/tour guide must be licensed.																																																					

Note: For more information, talk to your school counselor.

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Workforce Trends Interior design is a small occupation with a very small number of job openings each year, although employment of interior designers is expected to increase 9 to 17% for all occupations through the year 2014. Economic expansion, growing homeowner wealth, and an increased interest in interior design will increase demand for designers.		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>																																																										
Get the Facts Currently, there are approximately 65,000 people in the interior design profession.																																																												

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Biotech Research & Development Biotechnology

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry 1.00	Intermediate Algebra 1.00	Pre-calculus 1.00	Calculus or Statistics 1.00	
Science .50	Science 1.00	1.50	Science	2.00	Biology or Human Biology 1.00	Chemistry 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>While biotechnology is still in its infancy, it is a dynamic career field that is expanding by leaps and bounds. "Biotechnology has become the centerpiece of therapy of all ailments, from heart disease and cancers to the common cold," says Carl B. Feldbaum, president of the Biotechnology Industry Organization (BIO).</p> <p>Get the Facts</p> <p>Biotechnology is predicted to be one of the most important applied sciences of the 21st century.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			Career and Technical Education Recommended Pathway Courses				<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>
					(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)				
					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Courses: (required)		Credit	
					51.1201	Biotechnology		1.00	
						Elective Courses:			
					51.0001	Health Science, Introduction *		.50	
					51.1399	Medical Anatomy & Physiology		1.00	
					51.0799	Medical Terminology		.50	
					51.1199	Health Science, Advanced (capstone course)		1.00	
32.0199	Student Internship (Critical Workplace Skills)		.50						
					* It is preferred that this course be taken prior to any foundation course.				
					Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.				

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Health Informatics

Medical Office Administrative Assistant

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																													
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Workforce Trends According to the Utah Department of Workforce Services, a total of 11,000 average annual job openings are expected for this occupation through the year 2010.		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																				
Get the Facts As insurance policies become more intricate, and as government sets more guidelines and creates new laws surrounding the profession, there is an increased need for administrative help within hospitals, clinics, and other medical offices.																																						

College & Careers	
Beyond High School	
There are a number of options for education and training beyond high school, depending on your career goals.	
> Certificate	
> Associate degree	
> Bachelor's degree	
> Professional degree	
> On-the-job training	
> Apprenticeship	
> Military training	

Sample Occupations
> Health Science and Technology
Education Teacher
> Medical Coder
> Medical Secretary
> Medical Records Technician

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov .

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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Dental

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<p>Workforce Trends</p> <p>The dental industry is in critical need of dental assistants. Dentists are hiring more assistants to perform routine tasks so that they may devote more time to complex procedures. Employment for dental assistants is expected to increase 27% through the year 2014.</p> <p>Get the Facts</p> <p>Research shows that chronic gum disease leads to the release of inflammatory substances and bacteria into the blood stream, which leads to heart disease.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																														

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High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services

Emergency Medical Technician (EMT)

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Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00			

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Medical Assistant

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	Medical Anatomy and Physiology 1.00		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>A growing and aging population and technological advances in medicine make this one of the fastest growing occupations through the year 2014.</p> <p>According to the Utah Department of Workforce Services, a total of 27,000 average annual job openings are expected for this occupation through the year 2010.</p> <p>Get the Facts</p> <p>Medical assistants held about 387,000 jobs in 2004.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Career and Technical Education Recommended Pathway Courses				<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>	
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				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Courses: (required)		Credit		
				51.0801	Medical Assistant		2.00		
					Elective Courses:				
				51.0001	Health Science, Introduction *		.50		
				51.1399	Medical Anatomy & Physiology		1.00		
				51.0799	Medical Terminology		.50		
				51.1199	Health Science, Advanced (capstone course)		1.00		
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Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Sample Occupations

- > Certified Nurse Assistant (CNA)
- > Health Science and Technology Education Teacher
- > Licensed Practical Nurse (LPN)
- > Medical Assistant
- > Registered Nurse (RN)

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Nursing

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																				
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Get the Facts In the U.S., registered nurses held approximately 2.4 million jobs in 2004, making registered nursing the largest health care occupation. About 3 out of 5 RN jobs are in hospitals, in inpatient and outpatient departments.																																													

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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Pharmacy

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<div>Workforce Trends</div> <div>Pharmacy Technician:</div> <div>With increased medical needs of an aging population and additional tasks given to pharmacy techs., many job opportunities will be created, especially for those with formal training and certification.</div> <div>Pharmacist:</div> <div>New opportunities are emerging for pharmacists in managed care organizations, where they analyze trends and patterns in medication use, and in pharmacoeconomics—the cost and benefit analysis of different drug therapies.</div> <div>Get the Facts</div> <div>Pharmaceutical makers are accustomed to a research-to-market cycle of as long as 10 years in order to discover, develop and commercially launch a new drug.</div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div> <div>In Utah, a pharmacist must be licensed.</div>																															

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education



Pathway: Therapeutic Services Surgical Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																							
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<p>Workforce Trends</p> <p>Demand for surgical technicians will rise as the population ages and as new technologies allow for more and varied surgeries. Hospitals will remain the primary employer, but physician offices and clinics, including ambulatory surgical centers, will provide most new jobs.</p> <p>Get the Facts</p> <p>Surgical technicians are commonly referred to as "scrubs." More than three-fourths of scrubs work in a hospital setting, with the exception of private scrubs who are employed directly by surgeons for special teams – like transplant work.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																														

Sample Occupation

- > Health Science and Technology Education Teacher
- > Surgical Technician

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Health Science & Technology Education

Pathway: Therapeutic Services

Therapeutic Rehabilitation/Exercise (Formerly Exercise Science/Sports Medicine)

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																									
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<p>Workforce Trends</p> <p>Job growth will be concentrated in health care industry settings, such as ambulatory health care services and hospitals.</p> <p>Get the Facts</p> <p>Physical Therapy is ranked among the top 10 fields, and is expected to remain a top field well into the 21st century.</p> <p>In Utah, an athletic trainer, physical therapist, physician, and physician assistant must be licensed.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			<p>Career and Technical Education Recommended Pathway Courses</p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>51.0913</td><td>Exercise Science/Sports Medicine</td><td>1.00</td></tr><tr><td>51.1399</td><td>Medical Anatomy & Physiology</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>51.0001</td><td>Health Science, Introduction *</td><td>.50</td></tr><tr><td>51.0799</td><td>Medical Terminology</td><td>.50</td></tr><tr><td>51.1199</td><td>Health Science, Advanced (capstone course)</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table> <p>* It is preferred that this course be taken prior to any foundation course.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>				Course #	Foundation Courses: (required)	Credit	51.0913	Exercise Science/Sports Medicine	1.00	51.1399	Medical Anatomy & Physiology	1.00	Elective Courses:			51.0001	Health Science, Introduction *	.50	51.0799	Medical Terminology	.50	51.1199	Health Science, Advanced (capstone course)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50	<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>	
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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Information Support & Services

Database Development & Administration

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																											
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<p>Workforce Trends</p> <p>Computer systems analysts, database administrators, and computer scientists are expected to be among the fastest growing occupations through the year 2012.</p> <p>Get the Facts</p> <p>Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																		
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There are a number of options for education and training beyond high school, depending on your career goals.

> Certificate

> Associate degree

> Bachelor's degree

> Professional degree

> On-the-job training

> Apprenticeship

> Military training

Sample Occupations

> Database Administrator

> Database Architect

> Database Design Analyst

> Database Developer

> Database Engineer

> Information Scientist

> Information Technology Education Teacher

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Information Support & Services Technical Support

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																	
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<p>Workforce Trends</p> <p>Growth will be driven by rapid increases in the computer and data processing services industry. Employment prospects should be favorable, especially for candidates who have either a degree in computer science or computer engineering.</p> <p>Get the Facts</p> <p>Technical support positions are in high demand both in IT and non-IT companies. Non-IT companies represent 79% of employment for IT workers.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																								

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Interactive Media

Digital Media (Multimedia)

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																									
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Workforce Trends Multimedia is the field of the future and is rapidly growing. Because our global economy is driven by technology, multimedia has become one of the most in-demand fields around. With nearly 75% of Americans using the Internet and over 85 million domains registered worldwide, the demand for individuals skilled in interactive media is high.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district. Foundation courses taken beyond the required credits can be used as elective credit.																																																
Get the Facts Multimedia programs combine art and technology to present text, images and sound in digital form.																																																		

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



Pathway: Interactive Media Web Development & Administration

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																			
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																			
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<p>Workforce Trends</p> <p>The World Wide Web has changed the way we communicate and consume information. Millions of Web pages already exist, with more in the works. However, most people don't possess the technical know-how to launch an eye-catching Web site. That's the reason so many self-employed Web site designers are taking advantage of plentiful opportunities in this line of work.</p> <p>Get the Facts</p> <p>The American Institute of Graphic Arts reports that nine out of 10 artists have a college degree, most with a major in graphic design.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																										

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

Pathway: Network Systems

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
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<p>Workforce Trends</p> <p>Growth will be driven by rapid increases in the computer and data processing services industry.</p> <p>Get the Facts</p> <p>The term "computer bug" was coined in the 1940s, when an insect got into a relay in a primitive electromechanical computer, causing computer malfunctions.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																										

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education

Pathway: Programming/Software Development

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																														
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CTE Intro 1.00		1.00	Career and Technical Education	1.00																																			
Workforce Trends Demand for programmers to help organizations keep up with changing technology will continue. Prospects should be best for college graduates with knowledge of various programming languages and tools; those with less formal education or work experience should face keen competition.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district. Foundation courses taken beyond the required credits can be used as elective credit.			Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				<p>> Computer Programmer</p> <p>> Computer Systems Analyst</p> <p>> Game Programmer</p> <p>> Information Technology Education Teacher</p> <p>> Software Engineer</p>																														
Get the Facts Programmers represent the largest size group of IT workers. A total of 22,000 average annual job openings are expected for computer programmers through the year 2010.																																							
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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Marketing Education

Pathway: Marketing Entrepreneurship

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilization .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>To be an entrepreneur you don't need to be a certain age. A lot of teens are successful entrepreneurs. The U.S. Small Business Administration has a Teen Business Link to help teens start, grow, and own a business:</p> <p>http://www.sba.gov/teens/</p> <p>Get the Facts</p> <p>70% of the new jobs in America are created by small businesses, and 90% of these businesses are sole proprietorships.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>			Career and Technical Education Recommended Pathway Courses				<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>
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					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Courses: (required)		Credit	
					08.0301	Entrepreneurship		.50	
					08.0711	Marketing Semester		.50	
						Elective Courses:			
					08.9904	Advertising / Promotion		.50	
					08.0710	Customer Service		.50	
					08.0802	e-Commerce		.50	
					08.0601	Economics		.50	
					08.0101	Fashion Merchandising		.50	
					08.0199	Fashion Merchandising, Advanced		.50	
					08.0211	Leadership Principles		.50	
					08.0709	Marketing, Advanced		.50	
08.1701	Real Estate		.50						
08.0705	Retailing		.50						
08.0903	Sports & Entertainment Marketing		.50						
08.0901	Travel & Tourism		.50						
52.0312	Accounting I		.50						
52.0211	Business Management		.50						
52.0441	Business Law		.50						
32.0199	Student Internship (Critical Workplace Skills)		.50						

Note For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Marketing Education

Pathway: Sales & Service Marketing

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																																																
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Workforce Trends Employment opportunities for those pursuing a career in sales and service marketing will be best for those with a college degree. Appropriate knowledge or technical expertise, along with strong social skills, will be necessary for successful selling.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.			Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				<p>> Marketing Education Teacher</p> <p>> Merchandise Displayer</p> <p>> Purchasing Agent</p> <p>> Purchasing Manager</p> <p>> Retail Sales Manager</p> <p>> Sales Development Coordinator</p> <p>> Wholesale/Retail Broker</p> <p>> Wholesale/Retail Buyer</p>																																																																
Get the Facts According to the U.S. Department of Labor, more than 23 million Americans are employed in the retailing industry in more than 2 million retail establishments.		Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.			<table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>08.0711</td><td>Marketing Semester</td><td>.50</td></tr><tr><td>08.0705</td><td>Retail Management or Retailing School Store</td><td>.50</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>08.9904</td><td>Advertising / Promotion</td><td>.50</td></tr><tr><td>08.0710</td><td>Customer Service</td><td>.50</td></tr><tr><td>08.0802</td><td>e-Commerce</td><td>.50</td></tr><tr><td>08.0601</td><td>Economics</td><td>.50</td></tr><tr><td>08.0301</td><td>Entrepreneurship</td><td>.50</td></tr><tr><td>08.0101</td><td>Fashion Merchandising</td><td>.50</td></tr><tr><td>08.0199</td><td>Fashion Merchandising, Advanced</td><td>.50</td></tr><tr><td>08.0211</td><td>Leadership Principles</td><td>.50</td></tr><tr><td>08.0709</td><td>Marketing, Advanced</td><td>.50</td></tr><tr><td>08.1701</td><td>Real Estate</td><td>.50</td></tr><tr><td>08.0705</td><td>Retailing</td><td>.50</td></tr><tr><td>08.0903</td><td>Sports & Entertainment Marketing</td><td>.50</td></tr><tr><td>08.0901</td><td>Travel & Tourism</td><td>.50</td></tr><tr><td>52.0312</td><td>Accounting I</td><td>.50</td></tr><tr><td>52.0211</td><td>Business Management</td><td>.50</td></tr><tr><td>52.0441</td><td>Business Law</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table>					Course #	Foundation Courses: (required)	Credit	08.0711	Marketing Semester	.50	08.0705	Retail Management or Retailing School Store	.50	Elective Courses:			08.9904	Advertising / Promotion	.50	08.0710	Customer Service	.50	08.0802	e-Commerce	.50	08.0601	Economics	.50	08.0301	Entrepreneurship	.50	08.0101	Fashion Merchandising	.50	08.0199	Fashion Merchandising, Advanced	.50	08.0211	Leadership Principles	.50	08.0709	Marketing, Advanced	.50	08.1701	Real Estate	.50	08.0705	Retailing	.50	08.0903	Sports & Entertainment Marketing	.50	08.0901	Travel & Tourism	.50	52.0312	Accounting I	.50	52.0211	Business Management	.50	52.0441	Business Law	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	1.00 credit
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- Sample Occupations**
- > Marketing Education Teacher
 - > Merchandise Displayer
 - > Purchasing Agent
 - > Purchasing Manager
 - > Retail Sales Manager
 - > Sales Development Coordinator
 - > Wholesale/Retail Broker
 - > Wholesale/Retail Buyer

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Marketing Education

Pathway: Travel & Tourism

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Accounting 1.00		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
Workforce Trends According to the U.S. Department of Labor, travel and tourism is one of the largest and fastest-growing industries in the world. Each year, travel and tourism employers around the world pay more than \$1.6 trillion in wages and salaries and create 12.5 million new jobs.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district. Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.			Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				<p>1.00 credit</p> <p>2.00 credits</p> <p>3.00 credits for completion</p>
Get the Facts Approximately 42 million international visitors traveled to the United States in 2004. As a result, the U.S. travel industry received roughly \$568 billion from travelers.					Course #		Foundation Courses: (required)	Credit	
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					08.0711		Marketing Semester	.50	
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					32.0199		Student Internship (Critical Workplace Skills)	.50	

Note: For more information, talk to your school counselor.

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High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Building Trades Carpentry

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																									
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																									
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<div><div><div><div>Workforce Trends</div><div>Carpentry is a very large occupation in the United States. With the proper training and skills, job opportunities will be abundant.</div></div><div><div>Get the Facts</div><div>Each year, the U.S. adds about \$600 billion worth of new construction projects. In Utah, a carpenter must be licensed.</div></div></div><div><div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div><div>Concurrent enrollment course offerings vary by school and district.</div></div></div>																																																		

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Building Trades Electrician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																							
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<div>Workforce Trends</div> <p>As the population and economy grow, more electricians will be needed to install and maintain electrical devices and wiring in homes, offices, and other structures. Job opportunities are expected to be excellent, largely arising from the need to replace electricians who leave the occupation permanently.</p> <div>Get the Facts</div> <p>Compact florescent light bulbs use 75% less energy and last 10 times as long as regular incandescent.</p> <p>In Utah, an electrician must be licensed.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			<p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>																																											

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Building Trades HVAC

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																			
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<p>Workforce Trends</p> <p>Advances in computer technology have revolutionized the way we monitor and control the engineering systems in buildings. Job openings continue to multiply and the job outlook is very good through the year 2014.</p> <p>Get the Facts</p> <p>The average homeowner spends close to \$1,300 a year on utility bills. But an energy-efficient home can lower utility bills by 10 to 50%.</p> <p>In Utah, an HVAC mechanic/installer must be licensed.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>																																										

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Building Trades Plumbing

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																													
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																													
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	There are a number of options for education and training beyond high school, depending on your career goals. > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training																													
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																															
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)																															
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																														
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																
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CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div>Career and Technical Education Recommended Pathway Courses</div> <div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div> <div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div> <table><thead><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>46.0000</td><td>Construction Trades Foundation</td><td>.50</td></tr><tr><td>46.0501</td><td>Plumbing 1</td><td>1.00</td></tr><tr><td></td><td>Elective Course:</td><td></td></tr><tr><td>15.1301</td><td>Drafting & Design Technology</td><td>.50</td></tr><tr><td>46.0201</td><td>Carpentry 1</td><td>1.00</td></tr><tr><td>46.0302</td><td>Electrician 1</td><td>1.00</td></tr><tr><td>46.0502</td><td>Plumbing 2</td><td>1.00</td></tr><tr><td>47.0105</td><td>Basic Electronics</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table> <div>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</div>					Course #	Foundation Course: (required)	Credit	46.0000	Construction Trades Foundation	.50	46.0501	Plumbing 1	1.00		Elective Course:		15.1301	Drafting & Design Technology	.50	46.0201	Carpentry 1	1.00	46.0302	Electrician 1	1.00	46.0502	Plumbing 2	1.00	47.0105	Basic Electronics	1.00	32.0199	Student Internship (Critical Workplace Skills)
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Workforce Trends Demand for plumbers will stem from new construction and renovation, repair and maintenance of existing buildings.		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>																																				
Get the Facts Wooden pipes were common until the early 1800s, when a change was made to iron. In Utah, a plumber must be licensed.																																						

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Communication

Radio Broadcasting Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers	
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School	
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	There are a number of options for education and training beyond high school, depending on your career goals. > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training	
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)			
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)			
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50		
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50				
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50					
			Financial Literacy	.50			Financial Literacy .50			
Keyboarding .50			Computer Tech.	.50	Computer Technology .50					
CTE Intro 1.00		1.00	Career and Technical Education	1.00						
Workforce Trends Technological improvements in the industry mean greater efficiencies in the workplace, contributing to lessened pressure for broadcast employees. Get the Facts Throughout the U.S., there are over 12,500 radio stations—including commercial and non-commercial stations. Many of which are beginning to transmit digitally. This is a non-traditional occupation for women. Fourteen percent of the people employed in this occupation are women.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.			Career and Technical Education Recommended Pathway Courses				1.00 credits 	

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Communication

Television Broadcasting Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																																		
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																																		
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CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>10.0201</td><td>TV Broadcasting 1</td><td>.50</td></tr><tr><td>10.0202</td><td>TV Broadcasting 2</td><td>.50</td></tr><tr><td colspan="2">Or choose the following courses:</td><td></td></tr><tr><td>10.0203</td><td>TV Production 1</td><td>.50</td></tr><tr><td>10.0204</td><td>TV Production 2</td><td>.50</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>10.0205</td><td>Radio Broadcasting 1</td><td>.50</td></tr><tr><td>10.0206</td><td>Radio Broadcasting 2</td><td>.50</td></tr><tr><td>11.0201</td><td>Computer Programming 1</td><td>1.00</td></tr><tr><td>11.0210</td><td>Graphic Communications, Introduction</td><td>.50</td></tr><tr><td>11.0210</td><td>Multimedia</td><td>1.00</td></tr><tr><td>47.0105</td><td>Basic Electronics</td><td>.50</td></tr><tr><td>50.0406</td><td>Basic Film Photography</td><td>.50</td></tr><tr><td>50.0407</td><td>Basic Digital Photography</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table></div>					Course #	Foundation Course: (required)	Credit	10.0201	TV Broadcasting 1	.50	10.0202	TV Broadcasting 2	.50	Or choose the following courses:			10.0203	TV Production 1	.50	10.0204	TV Production 2	.50	Elective Courses:			10.0205	Radio Broadcasting 1	.50	10.0206	Radio Broadcasting 2	.50	11.0201	Computer Programming 1	1.00	11.0210	Graphic Communications, Introduction	.50	11.0210	Multimedia	1.00	47.0105	Basic Electronics	.50	50.0406	Basic Film Photography	.50	50.0407	Basic Digital Photography	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	1.00 credits	2.00 credit
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<div><div>Workforce Trends</div><div>Employment growth will result from increased hours of programming, but will be offset by laborsaving technology.</div><div>Get the Facts</div><div>Annual gross television-broadcasting revenues in the U.S. are conservatively estimated at about \$25 billion.</div></div>		<div><div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div><div>Concurrent enrollment course offerings vary by school and district.</div></div>			<div><div>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</div><div>3.00 credits for completion</div></div>				<div><div>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</div></div>																																																		

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Mechanics & Repairs Automotive Collision Repair

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>Job opportunities in the automotive industry are very good for persons with formal training in automotive body repair and mechanics.</p> <p>Get the Facts</p> <p>97% of all cars taken out of service are recycled, making them the most recycled product in the world.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Career and Technical Education Recommended Pathway Courses				<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>	
				(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Course: (required)	Credit			
				47.0603	Collision Non-Structural and Structural Repair	1.00	}		
				47.0623	Collision Refinishing and Painting	1.00			
				Elective Courses:			}		
				47.0105	Basic Electronics	.50			
				47.0604	Introduction to Automotive	1.00			
				47.0606	Small Vehicle Technician	1.00			
32.0199	Student Internship (Critical Workplace Skills)	.50							
* Will include advanced Automotive Collision Repair courses.									
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Mechanics & Repairs Automotive Service Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																									
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																									
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																									
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																											
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<p>Workforce Trends</p> <p>Job opportunities in the automotive industry are expected to be very good for persons with formal training, strong diagnostic and problem-solving skills, and knowledge of electronics and mathematics. Employment of automotive service technicians and mechanics is expected to increase 9 to 17% through the year 2014.</p> <p>Get the Facts</p> <p>According to the U.S. Department of Labor, the automotive industry is rapidly growing and “the work of automotive service technicians and mechanics has evolved from simply mechanical to high technology.”</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>																																																
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For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Mechanics & Repairs Electronics

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			<p>1.50 credits</p> <p>1.50 credit</p> <p>3.00 credits for completion</p>	
<p>Workforce Trends Employment will be limited by computer-aided design and other technologies that increase productivity. Opportunities will be best for those who have an associate's degree or extensive job training.</p> <p>Get the Facts A typical American household owns 25 electronic products.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Course #	Foundation Courses: (required)	Credit			
				47.0105	Basic Electronics	.50			
				47.0108	Digital Electronics	1.00			
				Elective Courses:					
				15.1301	Drafting & Design Technology	.50			
				46.0302	Electrician 1	1.00			
				47.0107	Advanced Electronics	1.00			
				47.0604	Introduction to Automotive	.50			
				48.0701	Woodworking	.50			
				32.0199	Student Internship (Critical Workplace Skills)	.50			
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Mechanics & Repairs Heavy Duty Diesel

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
<p>Workforce Trends</p> <p>Employment growth will result from the increased manufacturing of buses and trucks powered by durable, economical diesel engines. Opportunities are good for those with formal diesel mechanic training and experience with electronic and diagnostic equipment.</p> <p>Get the Facts</p> <p>In 2006, the Environmental Protection Agency (EPA) imposed stricter emissions standards for diesel trucks starting in 2007. This regulation is designed to reduce diesel truck emissions by 90%.</p>				Course #		Foundation Course: (required)	Credit		
				47.0605		Diesel Technician*	1.00		
				47.0613		Medium/Heavy Vehicle Systems	1.00		
						Elective Courses:			
				47.0105		Basic Electronics	.50		
				47.0604		Introduction to Automotive	1.00		
				47.0606		Small Vehicle Technician	1.00		
				47.0612		Vehicle Inspection Technician	1.00		
				47.0624		ASE General Service Technician	1.00		
				47.0634		ASE Brakes	1.00		
				47.0644		ASE Steering and Suspension	1.00		
				47.0654		ASE Electrical/Electronics	1.00		
				47.0664		ASE Engine Performance	1.00		
32.0199		Student Internship (Critical Workplace Skills)	.50						
				* Will include advanced Diesel courses.					
				Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.					

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Cabinetmaking/Millwork

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																													
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																													
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																													
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit — class of 2011)																															
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)																															
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																														
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																
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<p>Workforce Trends</p> <p>Job prospects will be best for highly skilled workers and those with knowledge of computerized machine tool operation.</p> <p>Get the Facts</p> <p>Construction is the second largest employer in the country, with nearly 7 million people working in construction today.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		<table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>48.0701</td><td>Woodworking</td><td>.50</td></tr><tr><td>48.0702</td><td>Furniture Design & Manufacturing</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>15.1301</td><td>Drafting & Design Technology</td><td>.50</td></tr><tr><td>15.1302</td><td>Drafting/CAD</td><td>.50</td></tr><tr><td>46.0201</td><td>Carpentry 1</td><td>1.00</td></tr><tr><td>48.0703</td><td>Cabinetmaking</td><td>1.00</td></tr><tr><td>52.0312</td><td>Accounting I</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table>				Course #	Foundation Courses: (required)	Credit	48.0701	Woodworking	.50	48.0702	Furniture Design & Manufacturing	1.00	Elective Courses:			15.1301	Drafting & Design Technology	.50	15.1302	Drafting/CAD	.50	46.0201	Carpentry 1	1.00	48.0703	Cabinetmaking	1.00	52.0312	Accounting I	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	<p>1.50 credits</p> <p>1.50 credits</p> <p>3.00 credits for completion</p>
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Note: For more information, talk to your school counselor.

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Drafting/CAD

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																														
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																														
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																														
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																
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P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																	
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CTE Intro 1.00		1.00	Career and Technical Education	1.00	<p>Career and Technical Education Recommended Pathway Courses</p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>15.1301</td><td>Drafting & Design Technology</td><td>.50</td></tr><tr><td>15.1302</td><td>Drafting/CAD</td><td>.50</td></tr><tr><td>15.1303</td><td>Architectural Drafting</td><td>1.00</td></tr><tr><td>15.1306</td><td>Mechanical Drafting</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>46.0201</td><td>Carpentry 1</td><td>1.00</td></tr><tr><td>48.0503</td><td>Machine Tool</td><td>1.00</td></tr><tr><td>48.0701</td><td>Woodworking</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>					Course #	Foundation Courses: (required)	Credit	15.1301	Drafting & Design Technology	.50	15.1302	Drafting/CAD	.50	15.1303	Architectural Drafting	1.00	15.1306	Mechanical Drafting	1.00	Elective Courses:			46.0201	Carpentry 1	1.00	48.0503	Machine Tool	1.00	48.0701	Woodworking	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
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32.0199	Student Internship (Critical Workplace Skills)	.50																																					
<p>Workforce Trends</p> <p>Industrial growth and increasingly complex designs will spur growth in drafting services. As technology advances, opportunities will be best for drafters with at least 2 years of post-secondary training, and computer-aided design systems experience.</p> <p>Get the Facts</p> <p>In today's technologically advanced business world, drafters must have excellent drawing and graphic skills along with a high level of computer skills.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>In Utah, an architect and a landscape architect must be licensed.</p>																																					

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Graphics/Printing

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Chemistry 1.00 or Physics 1.00 or Physics with Tech. 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL			1.00 credits 2.00 credit 3.00 credits for completion	
<p>Workforce Trends Employment growth in this highly competitive occupation will stem from increased demand for newer, high-technology industrial products in medicine, transportation, and other industries, and for Internet and video images.</p> <p>Get the Facts There are over 4 trillion paper documents in the U.S. alone – growing at a rate of 22% per year.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Course #	Foundation Courses: (required)	Credit			
				10.0301	Introduction Graphic Communications	.50			
				10.0302	Intermediate Graphic Communications	.50			
				Elective Courses:					
				10.0303	Advanced Graphic Communications	1.00			
				10.0304	Digital File Preparation	1.00			
				10.0305	Introduction Screen Printing	.50			
				32.0199	Student Internship (Critical Workplace Skills)	.50			
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Machine Tool

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																		
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																		
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																		
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																				
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)																				
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																			
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50																					
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50																						
			Financial Literacy	.50			Financial Literacy .50																				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																						
CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>48.0503</td><td>Machine Tool *</td><td>1.00</td></tr><tr><td></td><td>Elective Courses:</td><td></td></tr><tr><td>48.0508</td><td>Welding Technician – Entry Level</td><td>1.00</td></tr><tr><td>48.0701</td><td>Woodworking</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table><div>* Will include advanced Machine Tool courses.</div></div>					Course #	Foundation Course: (required)	Credit	48.0503	Machine Tool *	1.00		Elective Courses:		48.0508	Welding Technician – Entry Level	1.00	48.0701	Woodworking	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
Course #	Foundation Course: (required)	Credit																									
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48.0508	Welding Technician – Entry Level	1.00																									
48.0701	Woodworking	.50																									
32.0199	Student Internship (Critical Workplace Skills)	.50																									
<div><div>Workforce Trends</div><div>Despite rising productivity that is expected to limit employment growth, opportunities should be excellent because not enough qualified people are attracted to production-related occupations.</div><div>Get the Facts</div><div>No two countries were more responsible for the Industrial Revolution than America and England. In England, machines served to make talented artisans better. In America, machines served to make entrepreneurs more productive.</div></div>		<div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div> <div>Concurrent enrollment course offerings vary by school and district.</div>			<div>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</div>				<div>Sample Occupations</div> <div>> Machine Tool Cutter</div> <div>> Machine Tool Teacher</div> <div>> Machinist</div> <div>> Machinery Mechanic</div> <div>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</div>																		

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Precision Production Trades Welding

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>Job prospects should be excellent for skilled candidates.</p> <p>Get the Facts</p> <p>During the Middle Ages, the art of blacksmithing was developed and many items of iron were produced which were welded by hammering. It was not until the 19th century that welding as we know it today was invented.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>			Career and Technical Education Recommended Pathway Courses				<p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p>
					(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)				
					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Course: (required)		Credit	
					48.0508	Welding Technician – Entry Level		1.00	
					48.0509	Welding Technician – Advanced Level		1.00	
					Elective Courses:				
					15.1301	Drafting & Design Technology		.50	
					47.0105	Basic Electronics		.50	
					48.0503	Machine Tool		1.00	
48.0506	Sheet Metal		.50						
32.0199	Student Internship (Critical Workplace Skills)		.50						
					Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.				

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Personal Service Cosmetology/Barbering

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00 or Chemistry 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>Population growth and expanding services are expected to create good job prospects among hairstylists.</p> <p>Get the Facts</p> <p>Human hair is being used to clean up oil spills. Hair has a natural ability to absorb oils. Researchers have begun to use scrap hair from barbershops and beauty salons to keep our water clean.</p> <p>In Utah, a cosmetologist or barber must be licensed.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		Career and Technical Education Recommended Pathway Courses				<p>3.00 credits—Cosmetology</p> <p>2.00 credits—Barbering</p> <p>1.00 credit</p> <p>4.00 credits for completion—Cosmetology</p> <p>3.00 credits for completion—Barbering</p>	
				(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)					
				CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
				Course #	Foundation Course: (required)	Credit			
				12.0401	Cosmetology*	1.00	}		
					Or choose the following course:				
				12.0402	Barbering**	1.00	}		
					Elective Courses:				
				12.0409	Nail Technician	1.00	}		
				12.0409	Basic Esthetician and Skin Care	1.00			
52.0211	Business Management	.50							
52.0311	Business Math	.50							
52.0312	Accounting I	.50							
32.0199	Student Internship (Critical Workplace Skills)	.50							
* Will include advanced Cosmetology courses.								4.00 credits for completion—Cosmetology	
** Will include advanced Barbering courses.									
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.								3.00 credits for completion—Barbering	

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Sample Occupations

- > Barber
- > Cosmetologist
- > Cosmetology/Barbering Teacher

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education

Pathway: Personal Service

Esthetician/Nail Technician

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																	
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																	
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																	
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																			
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00 or Chemistry 1.00	(1 additional credit—class of 2011)																																			
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																		
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																				
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50																																					
			Financial Literacy	.50			Financial Literacy .50																																			
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																					
CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>12.0409</td><td>Nail Technician</td><td>1.00</td></tr><tr><td></td><td>Or choose the following course:</td><td></td></tr><tr><td>12.0409</td><td>Basic Esthetician and Skin Care</td><td>1.00</td></tr><tr><td></td><td>Elective Courses:</td><td></td></tr><tr><td>12.0401</td><td>Cosmetology*</td><td>1.00</td></tr><tr><td>12.0402</td><td>Barbering**</td><td>1.00</td></tr><tr><td>52.0211</td><td>Business Management</td><td>.50</td></tr><tr><td>52.0311</td><td>Business Math</td><td>.50</td></tr><tr><td>52.0312</td><td>Accounting I</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table><div><p>* Will include advanced Cosmetology courses.</p><p>** Will include advanced Barbering courses.</p></div></div>					Course #	Foundation Course: (required)	Credit	12.0409	Nail Technician	1.00		Or choose the following course:		12.0409	Basic Esthetician and Skin Care	1.00		Elective Courses:		12.0401	Cosmetology*	1.00	12.0402	Barbering**	1.00	52.0211	Business Management	.50	52.0311	Business Math	.50	52.0312	Accounting I	.50	32.0199	Student Internship (Critical Workplace Skills)	.50
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52.0312	Accounting I	.50																																								
32.0199	Student Internship (Critical Workplace Skills)	.50																																								
<div><div><div>Workforce Trends</div><div>Population growth and expanding services are expected to create good job prospects among manicurists and pedicurists.</div><div>Get the Facts</div><div>Having nails manicured is a very ancient activity. There is evidence that even 4,000 years ago it was known to our predecessors.</div><div>In Utah, an electrologist and nail technician must be licensed.</div></div><div>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</div><div>Concurrent enrollment course offerings vary by school and district.</div></div>																																										

Sample Occupations

- > Manicurist
- > Nail Technician
- Teacher
- > Pedicurist
- > Esthetician
- > Esthetician Teacher
- > Skin Care Specialist

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education

Pathway: Protective Service Firefighting

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																					
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																					
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training</p> <p>Sample Occupations</p> <p>> Battalion Chief > Fire Chief's Aide > Firefighter Supervisor > Firefighting Teacher > Fire Inspector > Fire Marshall > Forest Firefighter</p> <p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>																					
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																							
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00 or Chemistry 1.00	(1 additional credit—class of 2011)																							
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																						
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																								
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			Financial Literacy	.50			Financial Literacy .50																							
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																									
CTE Intro 1.00		1.00	Career and Technical Education	1.00	Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL <table><thead><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>43.0203</td><td>Fire Science</td><td>.50</td></tr><tr><td>51.0911</td><td>EMS, Introduction</td><td>.50</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>15.0507</td><td>Environmental Science</td><td>.50</td></tr><tr><td>21.0105</td><td>Physics with Technology</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>					Course #	Foundation Course: (required)	Credit	43.0203	Fire Science	.50	51.0911	EMS, Introduction	.50	Elective Courses:			15.0507	Environmental Science	.50	21.0105	Physics with Technology	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Protective Service Law Enforcement

Middle School		State Requirements			High School Suggested Education Plan						College & Careers																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																					
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none">> Certificate> Associate degree> Bachelor's degree> Professional degree> On-the-job training> Apprenticeship> Military training <p>Sample Occupations</p> <ul style="list-style-type: none">> Correctional Officer> Deputy Sheriff> Law Enforcement Teacher> Police Detective & Criminal Investigator> Police Patrol Officer> Police Supervisor> Sheriff <p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>																					
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																							
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biological Science 1.00	(1 additional credit—class of 2011)																							
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P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																								
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<p>Workforce Trends</p> <p>Employment of police and detectives is expected to increase 9 to 17% through the year 2014. A more security-conscious society and concern about drug-related crimes will contribute to the increasing demand for police services.</p> <p>Get the Facts</p> <p>There are approximately 740,000 sworn law enforcement officers now serving in the United States. About 10% of them are female.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		<table><tr><th>Course #</th><th>Foundation Course: (required)</th><th>Credit</th></tr><tr><td>43.0107</td><td>Law Enforcement</td><td>.50</td></tr><tr><td>51.0911</td><td>EMS, Introduction</td><td>.50</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>15.0507</td><td>Environmental Science</td><td>.50</td></tr><tr><td>21.0105</td><td>Physic with Technology</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table>				Course #	Foundation Course: (required)	Credit	43.0107			Law Enforcement	.50	51.0911	EMS, Introduction	.50	Elective Courses:			15.0507	Environmental Science	.50	21.0105	Physic with Technology	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.																														

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Visual Arts Commercial Art

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																			
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																			
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)																																					
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Chemistry 1.00	(1 additional credit—class of 2011)																																					
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																				
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																						
The Arts .50	The Arts .50	1.00	Fine Arts	1.5	Fine Arts Courses 1.50		Yearbook .50 / AP Studio Art Design 1.00																																					
			Financial Literacy	.50			Financial Literacy .50																																					
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																							
CTE Intro 1.00		1.00	Career and Technical Education	1.00	<div><div>Career and Technical Education Recommended Pathway Courses</div><div>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</div><div>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</div><table><thead><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr></thead><tbody><tr><td>50.0401</td><td>Design and Visual Communications</td><td>.50</td></tr><tr><td>50.0402</td><td>Commercial and Advertising Art</td><td>.50</td></tr><tr><td colspan="3">Elective Courses:</td></tr><tr><td>11.0210</td><td>Multimedia I</td><td>1.00</td></tr><tr><td>11.0215</td><td>3D Graphics</td><td>.50</td></tr><tr><td>11.0216</td><td>3D Animation</td><td>.50</td></tr><tr><td>50.0404</td><td>Industrial Design</td><td>1.00</td></tr><tr><td>50.0406</td><td>Basic Film Photography</td><td>.50</td></tr><tr><td>50.0407</td><td>Basic Digital Photography</td><td>.50</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></tbody></table><div>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</div></div>					Course #	Foundation Courses: (required)	Credit	50.0401	Design and Visual Communications	.50	50.0402	Commercial and Advertising Art	.50	Elective Courses:			11.0210	Multimedia I	1.00	11.0215	3D Graphics	.50	11.0216	3D Animation	.50	50.0404	Industrial Design	1.00	50.0406	Basic Film Photography	.50	50.0407	Basic Digital Photography	.50	32.0199	Student Internship (Critical Workplace Skills)	.50	1.00 credits	2.00 credits
Course #	Foundation Courses: (required)	Credit																																										
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Workforce Trends The expanding electronic media and entertainment industries will offer opportunities for animators, illustrators, and graphic artists. Competition for jobs will be keen.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor. Concurrent enrollment course offerings vary by school and district.							Sample Occupations <p>> Advertising Designer</p> <p>> Animator/Illustrator</p> <p>> Commercial Art Teacher</p> <p>> Commercial Designer</p> <p>> Fashion Artist</p> <p>> Graphic Designer</p> <p>> Painter/Illustrator</p> <p>> Photographer</p> <p>> Sketch Artist</p>																																			
Get the Facts Vincent Van Gogh painted four still-life canvases devoted entirely to the potato.																																												
									For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov .																																			

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Skilled & Technical Sciences Education



Pathway: Visual Arts

Commercial Photography

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	(1 additional credit—class of 2011)	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math	2.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	(1 additional credit—class of 2011)		
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Chemistry 1.00 or Physics 1.00 or Physics with Tech. 1.00	(1 additional credit—class of 2011)		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50		Art Foundations 1.00	Fine Arts Courses 1.50		
			Financial Literacy	.50			Financial Literacy .50		
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00		1.00	Career and Technical Education	1.00					
<p>Workforce Trends</p> <p>The number of portrait photographers is projected to increase along with the population. New opportunities should arise with Internet-based media companies, but keen competition is expected.</p> <p>Get the Facts</p> <p>The word “photography” comes from the Greek words for light and writing.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p> <p>Foundation courses taken beyond the required credits can be used as elective credit.</p>			Career and Technical Education Recommended Pathway Courses				1.00 credit
					(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)				
					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Courses: (required)		Credit	
					Choose one of the following “Basic” courses:				
					50.0406	Basic Film Photography		.50	
					50.0407	Basic Digital Photography		.50	
					50.0408	Advanced Commercial Photography		.50	
					Elective Courses:				
					11.0210	Multimedia		1.00	
11.0215	3D Graphics		.50						
11.0216	3D Animation		.50						
50.0401	Design and Visual Communications		.50						
50.0402	Commercial and Advertising Art		.50						
32.0199	Student Internship (Critical Workplace Skills)		.50						
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.					2.50 credits for completion				

<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>

Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Technology and Engineering Education



Pathway: Pre-Engineering (Utah Pre-Engineering Plan)

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																																			
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																																			
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.0	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>																																			
Math 7 1.00	Pre-Algebra 1.00	2.00	Math	2.00	Elem Algebra or Applied Math 1.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Pre-Calculus 1.00																																				
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology 1.00	Physics 1.00 or Physics with Technology 1.00	Chemistry 1.00																																				
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																																				
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																																						
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			Financial Literacy	.50			Financial Literacy .50																																					
Keyboarding .50			Computer Tech.	.50	Computer Technology .50																																							
CTE Intro 1.00	Exploring Technology .50	1.00	Career and Technical Education	1.00	<p>Career and Technical Education Recommended Pathway Courses</p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table><tr><th>Course #</th><th>Foundation Courses: (required)</th><th>Credit</th></tr><tr><td>21.0104</td><td>Foundations of Technology</td><td>.50</td></tr><tr><td>21.0115</td><td>Engineering Design</td><td>.50</td></tr><tr><td>21.0114</td><td>Pre-Engineering (capstone course)</td><td>1.00</td></tr><tr><td colspan="2">Elective Courses:</td><td></td></tr><tr><td>21.0200</td><td>Energy Foundations</td><td>.50</td></tr><tr><td>20.0112</td><td>Advanced Technology</td><td>.50</td></tr><tr><td>21.0116</td><td>Materials & Processes</td><td>.50</td></tr><tr><td>48.0101</td><td>Drafting/CAD</td><td>1.00</td></tr><tr><td>47.0105</td><td>Electronics</td><td>1.00</td></tr><tr><td>14.3101</td><td>Material Science Overview</td><td>1.00</td></tr><tr><td>32.0199</td><td>Student Internship (Critical Workplace Skills)</td><td>.50</td></tr></table> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>					Course #	Foundation Courses: (required)	Credit	21.0104	Foundations of Technology	.50	21.0115	Engineering Design	.50	21.0114	Pre-Engineering (capstone course)	1.00	Elective Courses:			21.0200	Energy Foundations	.50	20.0112	Advanced Technology	.50	21.0116	Materials & Processes	.50	48.0101	Drafting/CAD	1.00	47.0105	Electronics	1.00	14.3101	Material Science Overview	1.00	32.0199	Student Internship (Critical Workplace Skills)
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Beyond High School	
There are a number of options for education and training beyond high school, depending on your career goals.	
> Certificate	
> Associate degree	
> Bachelor's degree	
> Professional degree	
> On-the-job training	
> Apprenticeship	
> Military training	

Sample Occupations	
> Civil Engineer	
> Civil Engineering Technician	
> Electrical Engineer	
> Technology and Engineering Education Teacher	
> Mechanical Engineer	
> Mechanical Engineering Technician	

For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov .	
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Note: For more information, talk to your school counselor.

High School to College and Career Pathway: Secondary

Area of Study: Technology and Engineering Education



Pathway: Project Lead the Way (National Pre-Engineering Program)

Middle School		State Requirements			High School Suggested Education Plan				College & Careers
7 th Grade	8 th Grade	Middle School		High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts	3.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <p>> Certificate</p> <p>> Associate degree</p> <p>> Bachelor's degree</p> <p>> Professional degree</p> <p>> On-the-job training</p> <p>> Apprenticeship</p> <p>> Military training</p>
Math 7 1.00	Pre-Algebra 1.00	2.00	Math	2.00	Elem Algebra or Applied Math 1.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Pre-Calculus 1.00	
Science .50	Science 1.00	1.50	Science	2.00	Earth Systems 1.00	Biology 1.00	Physics 1.00 or Physics with Technology 1.00	Chemistry 1.00	
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies	2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health	2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts	1.50	Fine Arts Courses 1.50				
			Financial Literacy	.50	Financial Literacy .50				
Keyboarding .50			Computer Tech.	.50	Computer Technology .50				
CTE Intro 1.00	Exploring Technology .50	1.00	Career and Technical Education	1.00					
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					(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)				
					CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL				
					Course #	Foundation Courses: (required)		Credit	
					21.0120	Engineering Design, Introduction		1.00	
					21.0122	Principles of Engineering		1.00	
					21.0121	Digital Electronics		1.00	
					Elective Courses:				
					21.0123	Computer Integrated Manufacturing		1.00	
					21.0124	Engineering Design & Development		1.00	
					21.0125	Civil Engineering & Architecture		1.00	
14.0201	Aerospace Engineering		1.00						
32.0199	Student Internship (Critical Workplace Skills)		.50						
Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.									
<p>For more information on salary projections, labor market demand, and training options, visit www.careers.utah.gov.</p>									

Note: For more information, talk to your school counselor.